

U.S. PLANT PATENT APPLICATION OF

HEINRICH WESTHOFF

FOR: LOBELIA PLANT NAMED

‘WESLOARC’

WESTHOFF, Heinrich

APPLICANT: HEINRICH WESTHOFF

TITLE: LOBELIA PLANT NAMED 'WESLOARC'

BOTANICAL CLASSIFICATION/CULTIVAR DESIGNATION:

Lobelia X hybrida cultivar WESLOARC

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BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct cultivar of Lobelia plant, botanically known as *Lobelia erinus*, and hereinafter referred to by the name 'Wesloarc'.

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The new Lobelia is a product of a planned breeding program conducted by the Inventor in Südlohn, Germany. The objective of the breeding program was to develop new Lobelia cultivars with continuous flowering, interesting flower colors and high temperature tolerance.

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The new Lobelia originated from a cross-pollination made by the Inventor in 2002 of a proprietary selection of *Lobelia erinus* identified as code number 01P050, not patented, as the female, or seed, parent with a proprietary selection of *Lobelia erinus* identified as code number 01P508, not patented, as the male, or pollen, parent. The new Lobelia was discovered and selected by the Inventor from within the resultant

progeny from the above-mentioned cross-pollination in a controlled environment in Südlohn, Germany in 2002.

Asexual reproduction since 2002 of the new cultivar by terminal cuttings in a controlled environment in Südlohn, Germany, has shown
5 that the unique features of this new Lobelia are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'Wesloarc'. These
10 characteristics in combination distinguish 'Wesloarc' as a new and distinct cultivar:

1. Upright and mounding plant habit.
2. Freely branching habit with short internodes; dense and bushy plant form.
- 15 3. Continuously and freely flowering habit.
4. Densely pubescent stems and leaves.
5. Light blue and white bi-colored flowers.
6. Relatively tolerant to high temperatures.

Plants of the new Lobelia have larger flowers than plants of the
20 female parent, a proprietary selection identified as code number 01P050.

In addition, plants of the new Lobelia and the female parent selection differ in flower color. Plants of the new Lobelia have foliage with dense pubescence compared to the smooth foliage of plants of the male parent, a proprietary selection identified as code number 01P508. In addition,
5 plants of the new Lobelia have thicker branches than plants of the male parent selection. Flower color of plants of the new Lobelia is lighter blue than flower color of plants of the male parent selection.

Plants of the new Lobelia differ primarily from plants of the cultivar Weslospot, disclosed in a U.S. Plant Patent application filed
10 concurrently, primarily in flower color.

Plants of the new Lobelia can be compared to plants of the cultivar Weslobigblue, disclosed in U.S. Plant Patent number 12,634. However, in side-by-side comparisons conducted in Südlohn, Germany, plants of the new Lobelia differed from plants of the cultivar
15 Weslobigblue in the following characteristics:

1. Plants of the new Lobelia were more upright than plants of the cultivar Weslobigblue.
2. Leaves and stems of plants of the new Lobelia were more pubescent than leaves and stems of plants of the cultivar
20 Weslobigblue.

3. Plants of the new Lobelia had smaller flowers than plants of the cultivar Weslobigblue.

4. Flowers of plants of the new Lobelia were lighter blue in color than flowers of plants of the cultivar Weslobigblue.

5 Plants of the cultivar Wesloarc can also be compared to the cultivar Weslowei, disclosed in U.S. Patent number 12,708. However, in side-by-side comparisons conducted in Südlahn, Germany, plants of the cultivar Wesloarc and the cultivar Weslowei differed in the following characteristics:

10 1. Plants of the new Lobelia were more upright than plants of the cultivar Weslowei.

2. Leaves and stems of plants of the new Lobelia were more pubescent than leaves and stems of plants of the cultivar Weslowei.

15 3. Plants of the new Lobelia flowered more continuously than plants of the cultivar Weslowei.

4. Plants of the new Lobelia and the cultivar Weslowei differed in flower color.

20 5. Plants of the new Lobelia were more tolerant to high temperatures than plants of the cultivar Weslowei.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type.

5 Colors in the photographs may differ slightly from the color values cited in the detailed botanical description, which accurately describe the actual colors of the new Lobelia. The photograph at the top of the sheet comprises a close-up view of typical individual flowers of 'Wesloarc'. The photograph at the bottom of the sheet comprises side view of a

10 typical plant of 'Wesloarc' grown in a basket container.

DETAILED BOTANICAL DESCRIPTION

Plants of the cultivar Wesloarc have not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature and light intensity

15 without, however, any variance in genotype.

In the following description, color references are made to the Royal Horticultural Society Colour Chart, 2001 Edition, except where general terms of ordinary dictionary significance are used. Plants used for the description were grown in a glass-covered greenhouse and

20 conditions that closely approximate commercial production conditions

during the spring and summer in Südlohn, Germany. Plants used for the above-mentioned photographs and following description were grown as one plant per 12-cm container or three plants per 25-cm hanging basket container. During the production of the plants, day temperatures ranged from 20 to 25°C and night temperatures ranged from 16 to 18°C. Plants were pinched once during the production period by removing about 1 to 2 cm of the uppermost apical growing tip. Plants were about 20 weeks from planting when the photographs and description were taken.

BOTANICAL CLASSIFICATION:

10 *Lobelia erinus* cultivar Wesloarc.

PARENTAGE:

Female parent: Proprietary selection of *Lobelia erinus* identified as code number 01P050, not patented.

Male parent: Proprietary selection of *Lobelia erinus* identified as
15 code number 01P508, not patented.

PROPAGATION:

Type cutting: Terminal vegetative cuttings.

Time to initiate roots: About 18 to 21 days at 20°C.

Time to develop roots: About 20 to 28 days at 20°C.

20 Root description: Fine, fibrous and well-branched.

PLANT DESCRIPTION:

5 Plant form/habit: Upright and mounded flowering plants with intense blue and white-colored flowers. Lateral shoots outwardly spreading; plants uniform with dense foliage. Foliage and stems densely pubescent. Freely branching with lateral branches forming at every node; dense and bushy plant habit. Pinching plants enhances branching. Vigorous growth habit.

Usage: Appropriate for hanging baskets, window boxes and patio containers.

10 Plant height (soil level to top of plant plane): About 27 cm.

Plant length (soil level to lateral branches apices): About 70 cm.

Plant diameter: About 50 to 60 cm.

Lateral branch description:

Length: About 20 cm.

15 Diameter: About 2 mm.

Internode length: About 1.4 cm.

Texture: Densely pubescent.

Color: 137A.

Foliage description:

20 Arrangement: Alternate; simple.

Basal leaves:

Length: About 5.3 cm.

Width: About 3.5 cm.

Shape: Nearly round.

5 Apex: Retuse.

Base: Attenuate.

Margin: Slightly crenate.

Petiole length: About 1.6 cm.

Mid-plant leaves:

10 Length: About 3.8 cm.

Width: About 2.4 cm.

Shape: Ovate.

Apex: Rounded.

Base: Attenuate.

15 Margin: Crenate.

Petiole length: About 7 mm.

Apical leaves:

Length: About 2.4 cm.

Width: About 8 mm.

20 Shape: Linear to lanceolate.

Apex: Acute to slightly rounded.

Base: Attenuate.

Margin: Slightly dentate.

Petiole length: Petioles not observed.

5 Texture, all leaves, upper and lower surfaces: Densely pubescent.

Color, all leaves:

Developing foliage, upper surface: 137A.

Developing foliage, lower surface: 137C.

10 Fully developed foliage, upper surface: 147A; venation, 147B.

Fully developed foliage, lower surface: 147B; venation, 147B.

FLOWER DESCRIPTION:

15 Flower type and habit: Flowers arranged singly at lateral apices. Flowers held mostly outwardly. Flowers persistent. Older flowers are overgrown by new flowers and foliage. Freely and continuously flowering. Flowers not fragrant.

20 Flower shape: Tubular with three larger lower petals and two upright petals.

Natural flowering season: Spring until frost in the autumn.

Flower longevity on the plant: Longevity of individual flowers is highly dependent on weather conditions; typically three to ten days.

5 Flower size:

Diameter: About 1.9 cm.

Depth (height): About 1.9 cm.

Tube length: About 1 cm.

Throat diameter, distal end: About 4 mm.

10 Tube diameter, proximal end: About 3 mm.

Flower buds:

Length: About 1.2 cm.

Diameter: About 3 mm.

Shape: Oblong.

15 Color: Towards the base, 145B to 145D; towards the apex, close to 145B; with development color becoming closer to 122B to 122C.

Petals:

20 Arrangement: Single whorl of five petals, fused; three larger lower petals and two smaller upper petals.

Three lower petals:

Shape: Oblong.

Length, above throat: About 1 cm.

Width: About 7 mm.

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Two upper petals:

Shape: Spatulate.

Length, above throat: About 7 mm.

Width: About 3 mm.

Upper and lower petals:

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Apex: Cuspidate.

Margin: Entire.

Texture, upper and lower surfaces: Smooth, satiny.

Color:

15

When opening and fully opened, upper surface: Towards the margin 97A; towards the center, 155C.

When opening and fully opened, lower surface: Towards the margin 97C; towards the center, 155C.

Throat: 97C to 97D; spots, 98A, 144A and
88D.

Tube: 97B to 97D.

Sepals:

5 Arrangement: Single whorl of five sepals, star-shaped
calyx.

Length: About 6.6 mm.

Width: About 1.6 mm.

Shape: Acutely triangular.

10 Apex: Acute.

Margin: Entire.

Texture, upper and lower surfaces: Smooth.

Color, upper and lower surfaces: 137A.

Peduncles:

15 Appearance: Wiry.

Length: About 1.8 cm.

Diameter: About 1 mm.

Texture: Pubescent.

Color: 137A.

Reproductive organs:

Stamens:

Quantity per flower: About five, fused.

Anther length: About 2.9 mm.

5 Anther diameter: About 1.9 mm.

Anther color: 186A.

Pollen amount: Moderate.

Pollen color: 9A.

Pistils:

10 Quantity per flower: One.

Pistil length: About 6.3 mm.

Stigma shape: Two- parted, ovate.

Stigma texture: Pubescent.

Stigma color, immature: 186A.

15 Stigma color, mature: 81A.

Style length: About 3.5 mm.

Style color: 145A.

Ovary color: 145A.

20 Seed/fruit: Seed and fruit production have not been
observed.

WESTHOFF, Heinrich

DISEASE/PEST RESISTANCE:

Plants of the new Lobelia have not been noted to be resistant to pathogens and pests common to Lobelia.

TEMPERATURE TOLERANCE:

- 5 Plants of the new Lobelia have been observed to tolerate temperatures ranging from 2 to 30°C.